

Inria



Inria-ECDF– Workshop - June 5-7,
2024

Inria Overview and Instruments to support collaboration

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International Partnerships Germany
DRI –Inria

Inria

Inria at a glance



- French National Research Institute for Digital Science and Technology
- Under the dual authority of the Ministry of Research and the Ministry of Economics
- Moto: "Scientific Excellence and Transfer"

ARCHITECTURE, SYSTEMS & NETWORKS

ALGORITHMS & PROGRAMMING

MODELING & SIMULATION

OPTIMIZATION & CONTROL

INTERACTION & MULTIMEDIA

DATA SCIENCE & KNOWLEDGE ENGINEERING

SECURITY & PRIVACY

ARTIFICIAL INTELLIGENCE



HEALTH



ENERGY



ENVIRONMENT



FOOD & AGRICULTURE



TRANSPORTATION



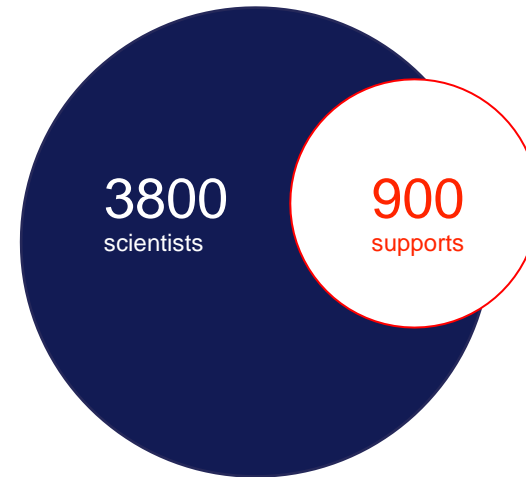
CULTURE & ENTERTAINMENT

Inria

Key figures



4700
collaborators

A horizontal row of 47 small, grey, stylized human icons, each with a white circle on its head, representing the total number of collaborators.

- ▶ Inria: 2800
- ▶ Partners (universities,...): 1900
- ▶ Annual flux of young scientists: 800 in / out
- ▶ Scientific publications/year : 4000
- ▶ PhD/year : 400

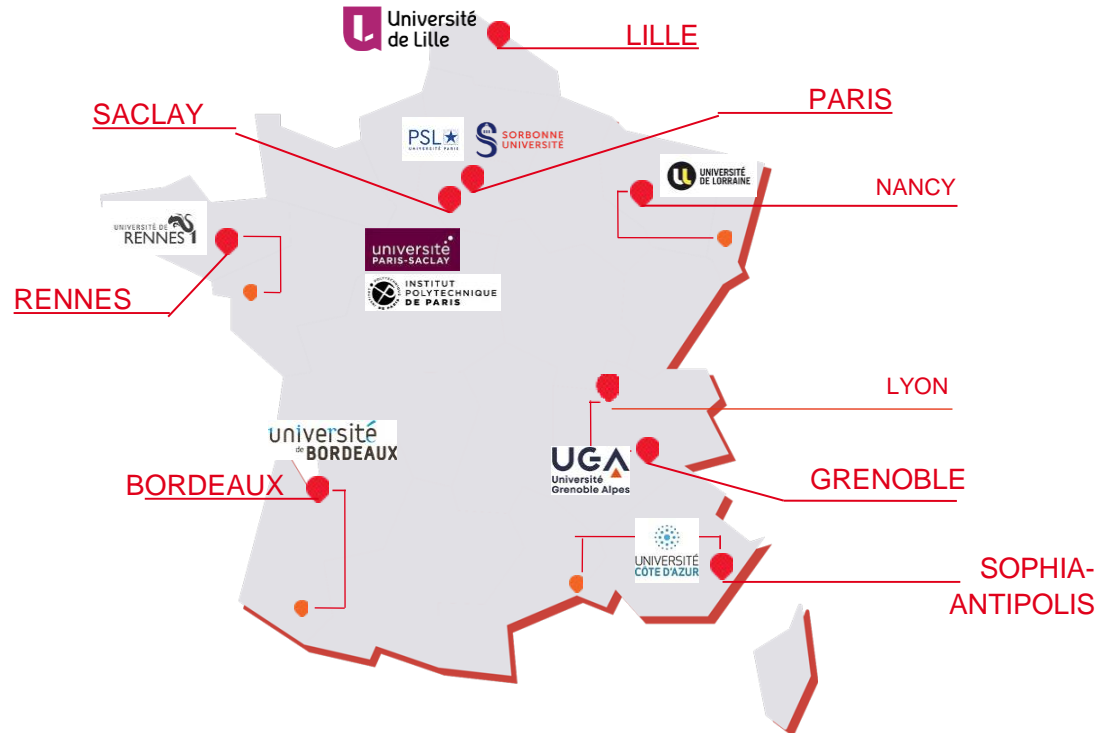
Project-based scientific organisation



- Since 1971 (JL Lions) : Inria is organized in **projects** (no departments, no laboratories,...)
- Project-teams (~ 230) : the basic unit at Inria
 - ▶ On average 15 people, under the direction of a scientific leader
 - ▶ A research & innovation roadmap
 - ▶ Created for 4 years. Renewed at most twice, after an international evaluation
- Inria Challenges (~ 15)
 - ▶ Put together several project-teams to address a specific challenge
- Exploratory Actions (~ 70)
 - ▶ To promote scientific risk taking, "off the beaten tracks"



9 Inria Centers with key French universities



Recent name shift : “Inria Center at the University of ...”

Innovation & Industrial transfer at Inria



Creation of
Deeptech startups

R E G A I N D

Apple



Sun Microsystems



EADS



The Mathworks

kelkoo

Yahoo



Business Objects



Ansys



Tagmaster



IBM



Autodesk



Gemalto

250+ startups created
some acquired by market leaders



- Startups seen as a vector of transfer
- **Inria Startup Studio**: target =100 projects / year
- Deeptech Entrepreneurs Digital Sciences

Inria

Innovation & Industrial transfer at Inria



Strategic partnership
with large companies

AIRBUS
GROUP

arianeGROUP

EVIDEN

Berger
Levrault

criteo.

DASSAULT
SYSTEMES

EDF

interdigital.



LA POSTE

Microsoft
Research

NAVAL
GROUP

NOKIA

orange™

OVHcloud

STELLANTIS

TotalEnergies

Valeo

- A shared scientific and technological roadmap
- Joint project-teams
- Joint Challenges, ...

Some open source software



OCaml



acm Software System Award 2013

GATB

acm Software System Award 2021



MUMPS



SAMSON

Top 5 software in AI
Millions of users
58k stars github



Inria as a Programs Agency



- President Macron's decision in December 2023
- Inria in charge of the Programs Agency for digital science and technology
- 9 thematic programs within the Inria Programs Agency:

6 "core disciplines"

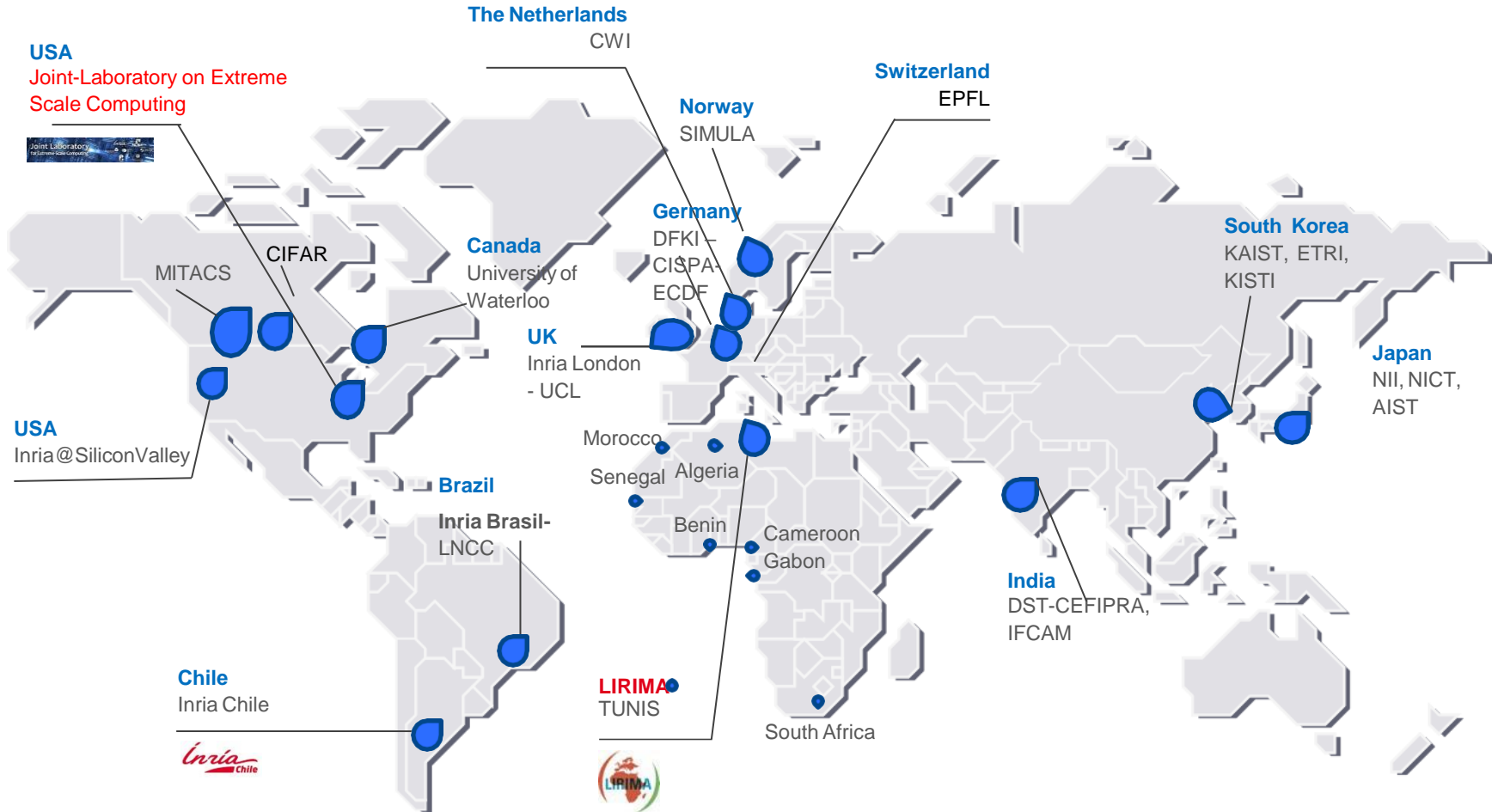
- AI
- Cybersecurity
- Quantum Computing
- Immersive universe
- Cloud, réseaux & systèmes
- HPC (in progress)

3 "application domains"

- Digital health
- Environment
- Education



Inria International Partnerships





France – Germany science & technology funding schemes

- **Numerous!** (not exhaustive):
 - ANR-BMBF and ANR-DFG joint French German Calls
 - Hubert Curien Program (PHC) Procope Procope + Procope Mobility
 - Mobility support and assistance for summer schools or research workshops offered by the Franco-German University (UFA)
 - Scholarships for long-term research stays offered by the Alexander von Humboldt Foundation
 - Forcheur Price

<https://www.science-allemande.fr/>
<https://www.wissenschaft-frankreich.de/>

International partnerships



Main Inria international programs

Associate Teams (~100)

- Joint research project between an Inria project-team and a research team abroad

Sabbatical leaves

- Supporting Inria scientists for a long research stay in a lab abroad

Inria International Chairs

- Hosting International scientists
 - 12 months over a period of 5 years (advanced career)
 - 9 months over a period of 3 years (starting career)

European Union activities

Inria in "Horizon 2020" (2014-2020)

- 187 projects
- 103,9 m€



Active in several European associations

- ERCIM
- CLAIRE in AI
- ADRA : AI, Data and Robotics association
- 6G-IA - Smart Networks & Services Industry Assoc.
- ...



The « Associate Teams » Programme

- **Bilateral scientific projects**
 - **Annual call** for joint research projects between an Inria project-team and a research team abroad
 - Supports scientific activities **for 3 years**
 - €21.000 to 36.000 max. funding per project (for the 3 years)
 - **Next Call opens in June**

2024

99 on-going
joint research
projects

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Thanks !